Elastic IP

An Elastic IP is like having own fixed address in digital world of Web Services.

It’s a special type of address that you can attach to your virtual servers in AWS.

Once you get an Elastic IP ,it’s yours until you decide to release it. It stays associated with your account.

Even if you stop and start your instance , the Elastic IP stays the same.It doesn’t change like regular IP addresses do .

So, an Elastic IP is like having your own permanent mailbox in the cloud. NO matter where your instances moves ,its address stays the same.

Network Interfaces

Network Interfaces are like virtual network cards for your instances.

They help your instances talk to each other inside your cloud setup also connect to the wider internet.

They’re like the digital adapters that help your instances communicate within your cloud setup and with the broader internet.

Placement Group

Placement group is like putting your instances into groups within the same availability zone .

These groups helps to control where your instances go in the physical data center.

There are Three Types :

1)Spread Placement group :

Instances are placed on separate hardware to reduce the risk of simultaneous failure, it is ideal for critical applications like databases.

2)Cluster Placement group :

Instances are located close together to enable low-latency, high bandwidth communication, suitable for high performance computing.

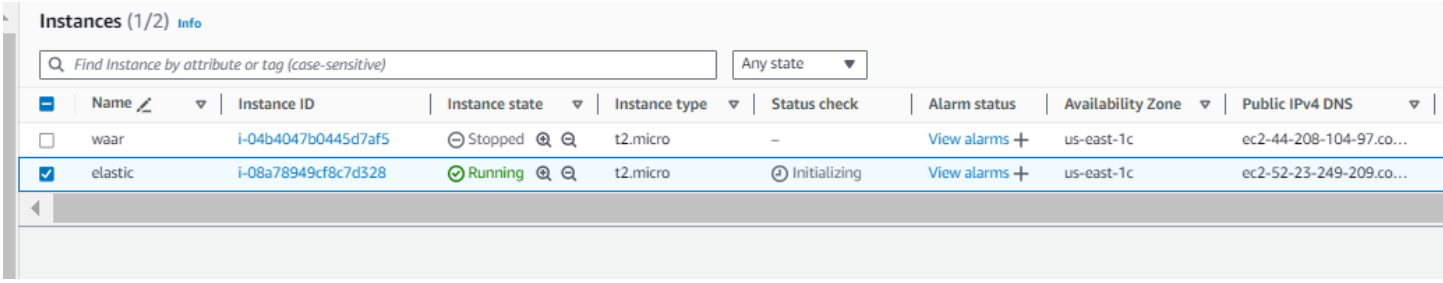
3)Partition Placement group :

Instances are spread across logical partitions, useful for large distributed workloads such as distributed databases and file systems.

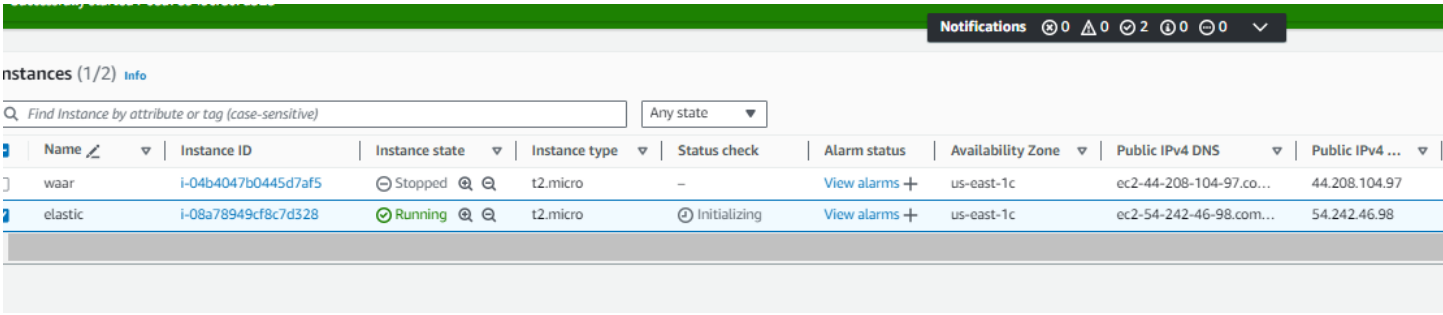
###GIVE THE ELASTIC IP TO INSTANCE###

Step I : Create the Instance.

Check here it’s ip is 52.23.249.209 stop this instance.



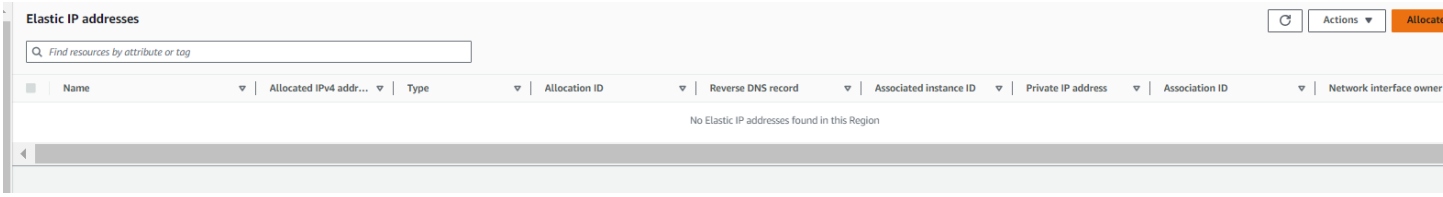
Start Again and check here it's ip is 54.242.46.98 it gets changes .

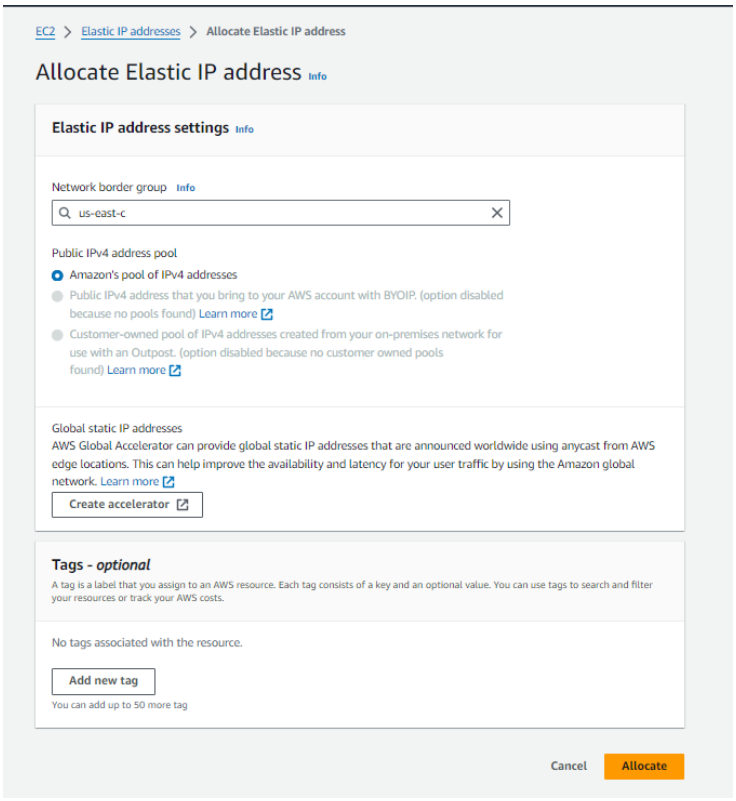


To solve this problem we use elastic ip.

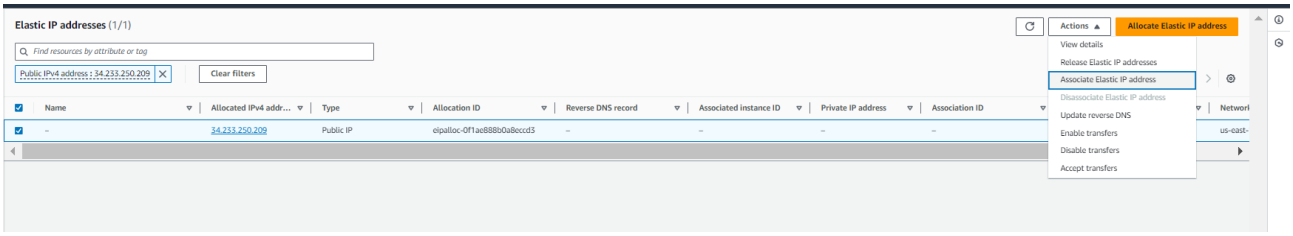
Step II : Go to "Elastic IP" in "Network & Security".

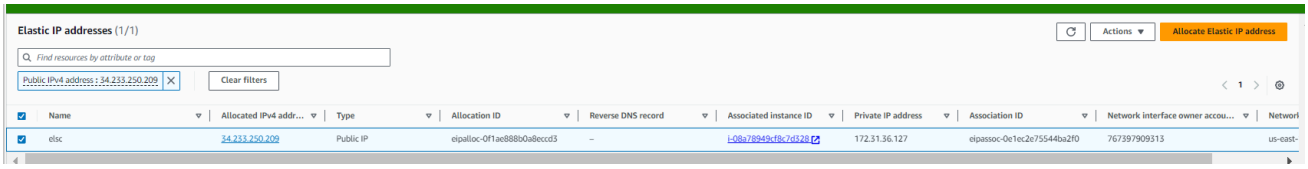
Step III : Click on "Allocate Elastic IP address" and then "Allocate".





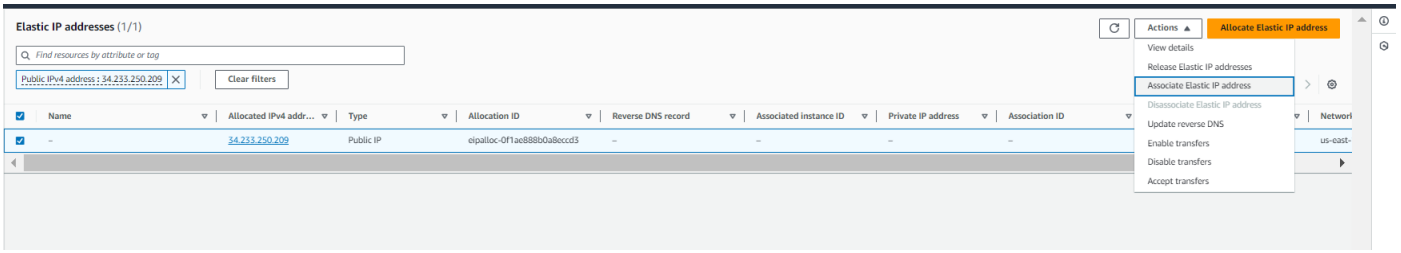
Step IV : Select the allocated IP and click “Actions”.

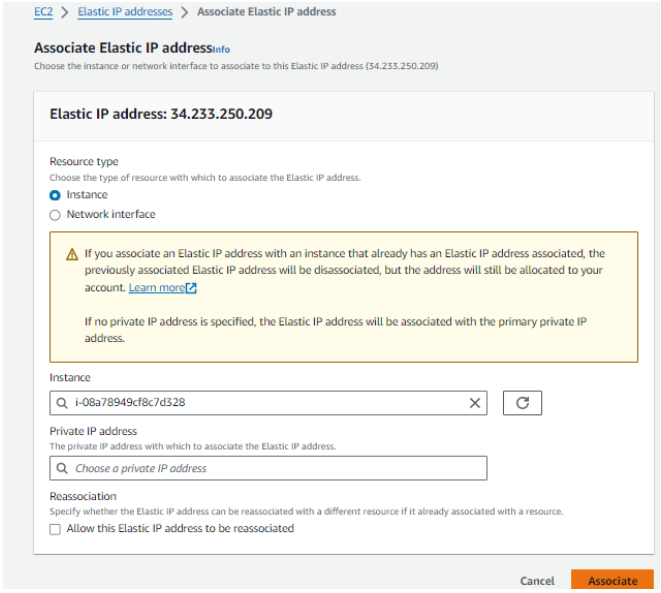




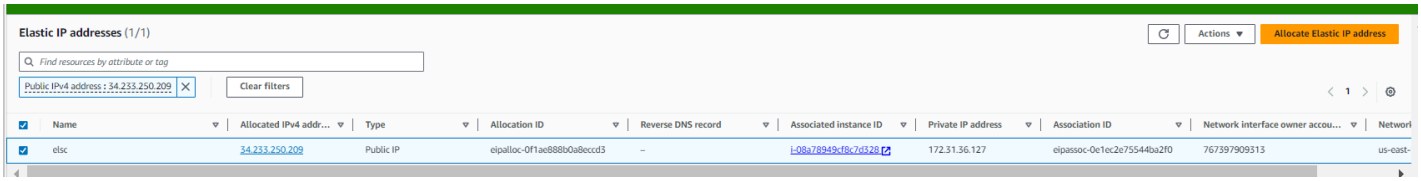
Step V : Choose “Associate Elastic IP address”.

Step VI : Select the instances and click on “Associate”.

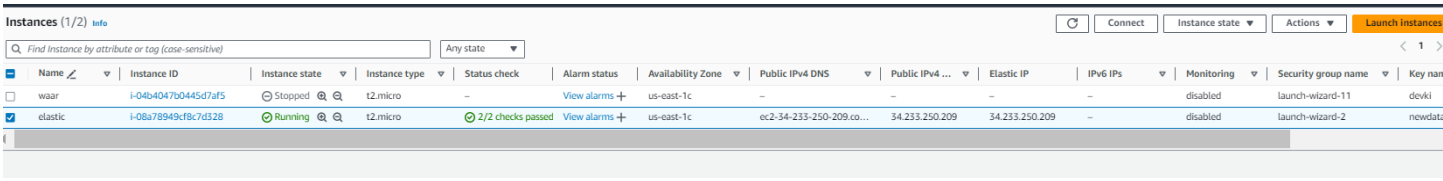




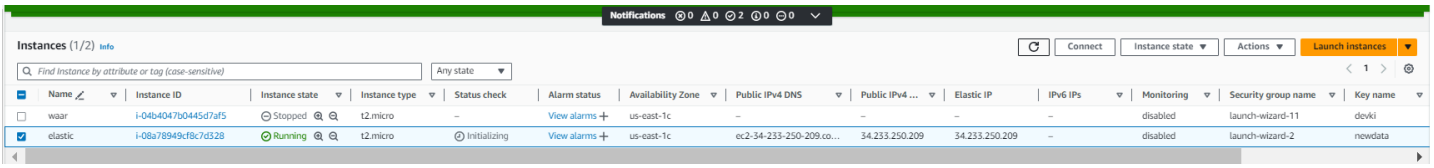
Elastic IP address gets created.



See here ,ip of elastic instance is 34.233.250.209 stop instance.



Start instance again ,see here ip is not changed.



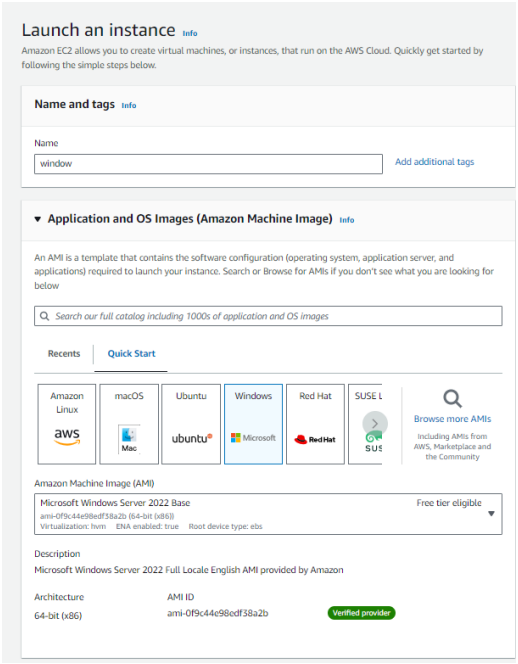
###CREATING THE INSTANCE FOR MICROSOFT WINDOWS###

Step I : In Instances,Go to “Launch Instances”.

Step II : Enter the instance name.

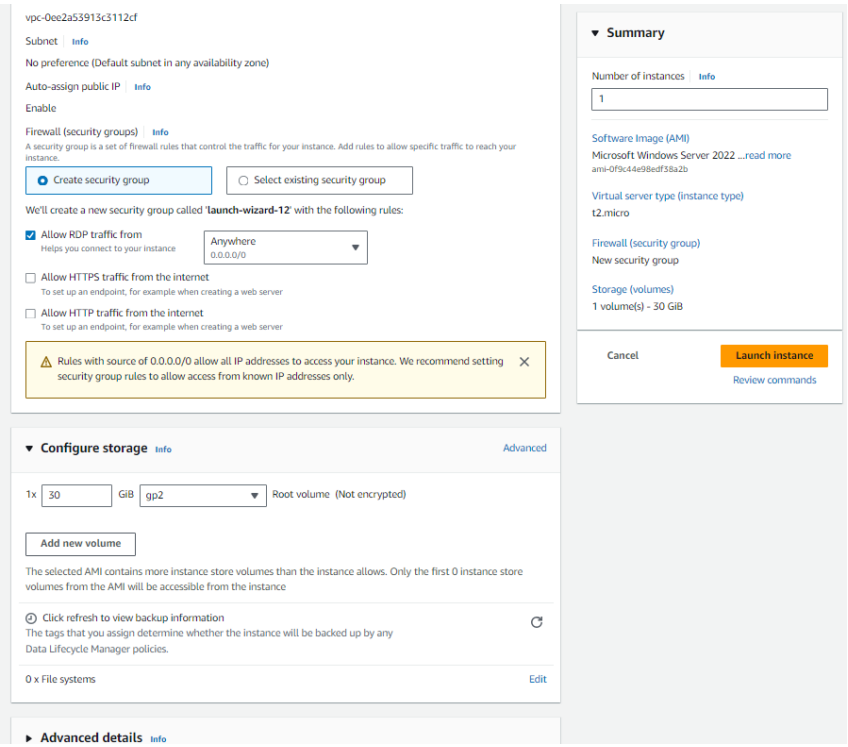
Step III : Select the Windows AMI.

Step IV : Choose the key-pair.

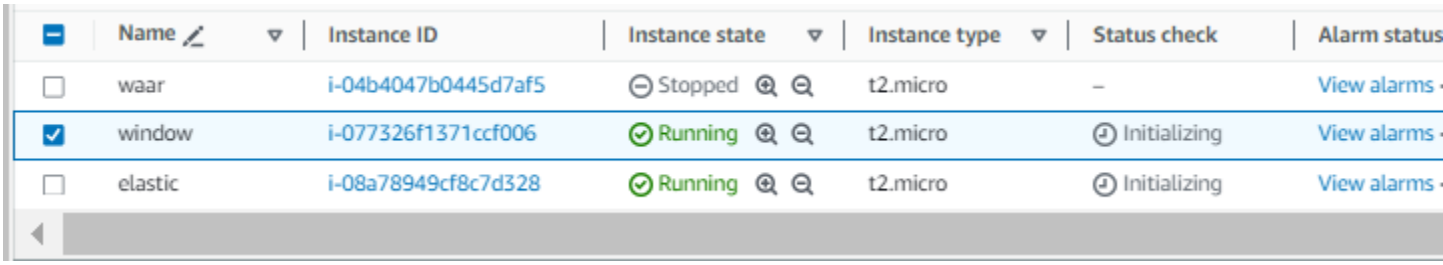


Step IV : Choose the Security key.

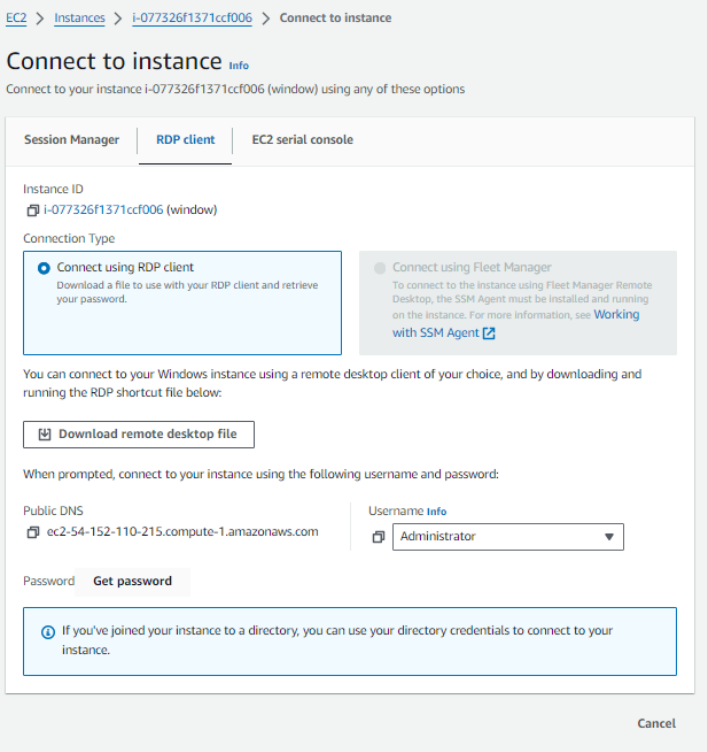
Step V : Click on Launch Instance”.



Step VI : Select the windows instances in Instances and click to “connect”.

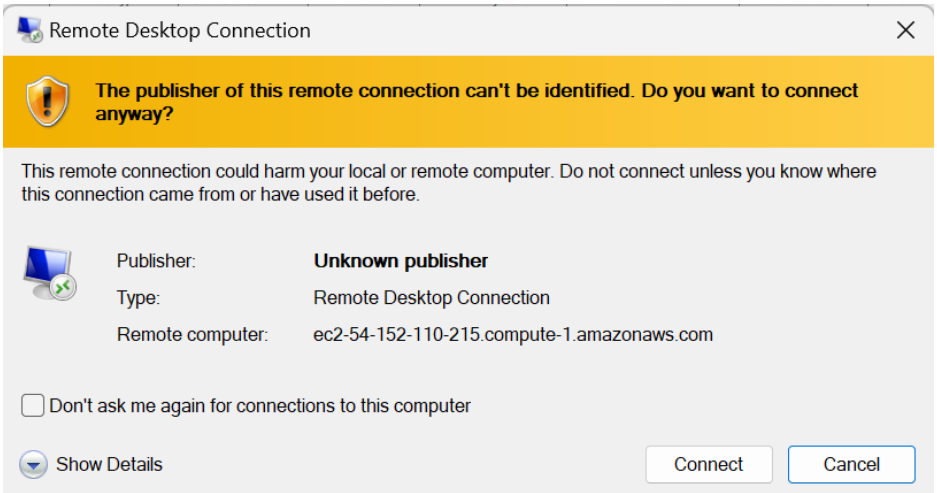


Step VII : Click on RDP(Remote Desktop Protocol) client then “Download remote desktop file”.



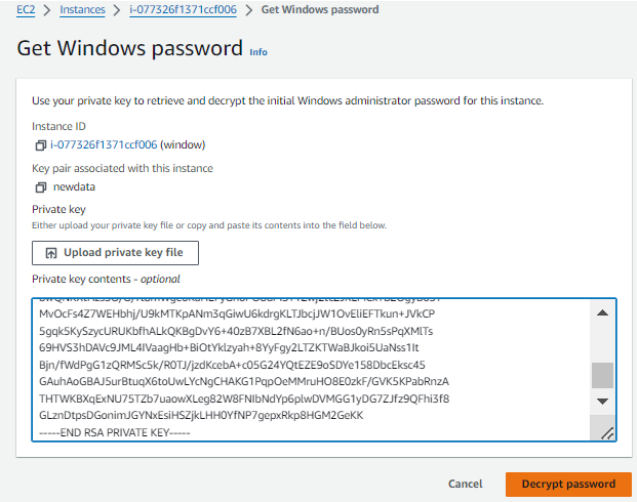
Step VIII : open the downloaded file.

Step IX : click “connect”.

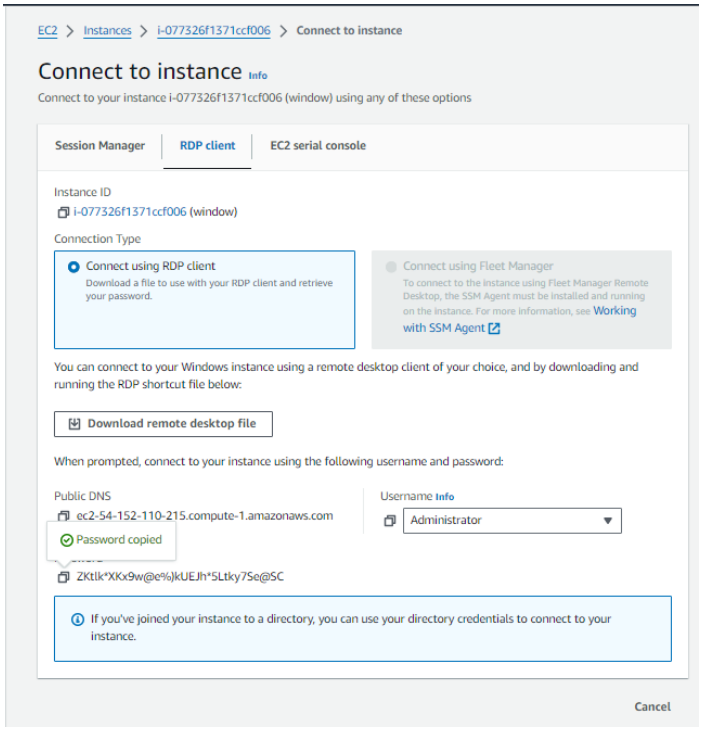


Step X : upload the private key file.

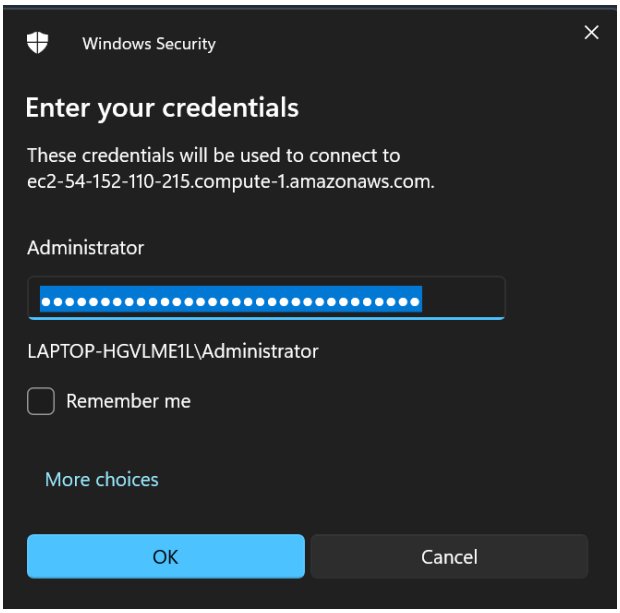
Step XI : Decrypt the password.

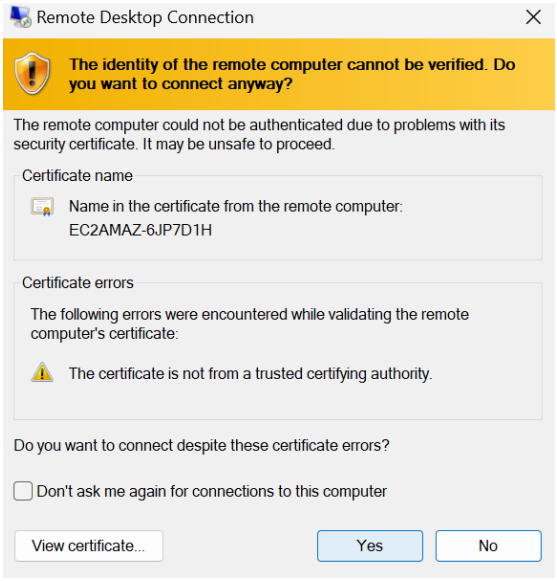


Step XII : Copy the password and paste it.



Step XIII : Click “OK” then “Yes” to connect successfully


Windows Security
Enter your credentials
These credentials will be used to connect to ec2-54-152-110-215.compute-1.amazonaws.com.
Administrator
LAPTOP-HGVLME1L\Administrator
Remember me
More choices
OK
Cancel


Remote Desktop Connection
The identity of the remote computer cannot be verified. Do you want to connect anyway?
The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.
Certificate name
Name in the certificate from the remote computer:
EC2AMAZ-6JP7D1H
Certificate errors
The following errors were encountered while validating the remote computer's certificate:
The certificate is not from a trusted certifying authority.
Do you want to connect despite these certificate errors?
Don't ask me again for connections to this computer
View certificate...
Yes
No

###CREATING NETWORK INTERFACES FOR MULTIPLE IP'S

Step I : Click on "Network Interfaces".

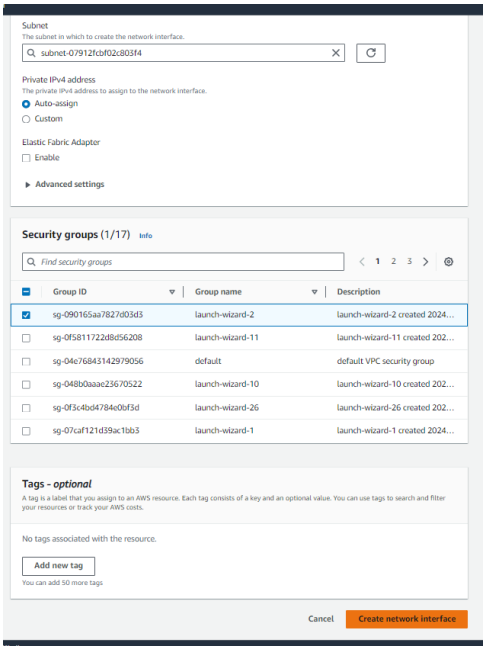
Step II : Click "Create Network Interfaces".

Step III : Add the Description and select the Subnet .

Step IV : Set the Private IP to "Auto-assign".

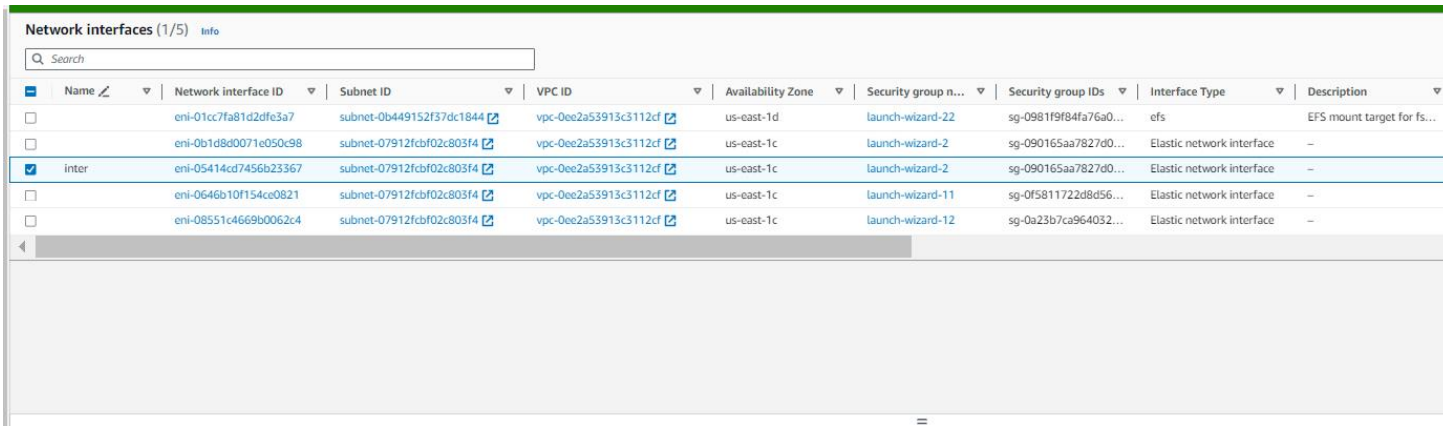
Step V : Select the desired security groups.

Step VI : Click "Create network interface",

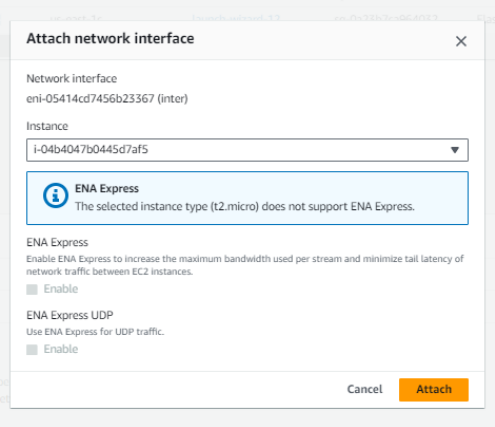


Step VII : Select the network interface and give it a name.

Step VIII : Click on "Actions" then "Attach"



Step IX : Choose the instance and click “Attach”.



Step X : here we get multiple IP’s